

*SWS Miscellaneous Publication 98*

STATE OF ILLINOIS

DEPARTMENT OF ENERGY AND NATURAL RESOURCES



*Local Climatological Data Summary  
Champaign—Urbana, Illinois  
1888—1986*

by Audrey A. Bryan and Wayne M. Wendland

ILLINOIS STATE WATER SURVEY  
CHAMPAIGN

SEPTEMBER 1987

LOCAL CLIMATOLOGICAL DATA FOR  
URBANA-CHAMPAIGN 1888 TO 1986

Climatological Summary

Urbana has a temperate continental climate dominated by maritime tropical air from the Gulf of Mexico from about May through October, maritime polar air from the Pacific Ocean in spring, fall and winter, with short-duration incursions of continental polar air from Canada in winter. Winter high temperatures are typically in the 30s (F), where summer highs are usually in the 80s, with daily lows about 20F lower. Spring and fall are composed of winter-like and summer-like days, with rather large day-to-day fluctuations common. The greatest day-to-day changes in temperature occur in late fall, winter and early spring.

Winters are usually punctuated with 2 to 8 cold, dry arctic outbreaks, with daily lows dropping into the -10F range. They generally persist for 3 to 5 days, and are often preceded by a winter storm that can reach severe proportions. Six inches of snow, with heavy drifting and poor visibility are the characteristics of those storms. Summers are typically humid with dew points in the 60s and afternoon relative humidities also in the 60 percents. We observe about 25 days per year with temperatures greater than 90F; temperatures greater than 100F are seldom experienced.

Average (1951-80) precipitation is about 34 inches, including about 22 inches of snow, but there is great variability from one year to the next. We typically experience about 25 days with thunderstorms per year, and hail is usually observed once or twice each year. Champaign County has recorded about 25 tornadoes since 1916. Freezing precipitation (glaze) is more common here than to the north to south, with about 3 such occurrences each year; again with great year-to-year variability.

Eighty-five percent of the mean annual precipitation falls from April through September. The frost-free growing season averages about 175 days, beginning about 25 April and ending about 20 October.

# AVERAGE TEMPERATURE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1889	20.4	23.5	40.0	50.0	58.3	65.0	72.0	68.8	62.2	67.7	36.9	42.2	49.7	1930	21.1	34.6	38.8	54.9	63.6	70.6	78.4	76.1	69.1	53.2	42.4	31.2	53.3
1890	33.4	35.1	37.9	51.9	58.1	74.1	72.5	69.1	60.3	52.3	42.4	31.0	51.0	1931	32.7	37.4	36.2	52.8	59.1	74.2	78.4	74.7	72.4	59.3	50.2	39.5	55.6
1891	31.4	32.3	32.6	52.3	57.5	71.7	69.4	71.2	69.3	51.8	35.9	36.6	51.0	1932	36.1	34.0	33.3	52.9	63.5	73.1	77.0	74.4	65.9	54.5	35.8	29.6	52.0
1892	18.2	33.5	37.7	47.7	57.6	71.4	73.3	72.0	65.0	53.7	34.9	23.0	49.3	1933	37.9	24.0	40.1	51.8	63.7	74.1	78.5	73.2	72.5	53.3	40.6	34.5	54.4
1893	14.7	24.9	36.5	46.7	58.1	71.3	77.4	72.0	67.8	53.8	30.0	20.2	49.9	1934	33.1	24.8	35.4	52.1	67.4	78.8	81.0	74.2	64.7	58.1	46.2	28.0	53.7
1894	30.0	24.8	44.2	51.9	59.6	73.0	73.9	73.1	66.6	53.3	36.0	34.0	51.7	1935	29.4	33.3	46.7	44.0	56.6	67.8	78.0	74.6	66.6	55.5	40.6	25.2	51.9
1895	19.4	17.9	37.5	52.7	42.4	73.3	71.1	74.0	68.7	46.5	37.8	31.3	49.4	1936	70.3	19.3	43.3	44.0	65.7	72.1	43.3	74.2	70.2	55.0	38.7	34.3	52.5
1896	27.9	20.7	33.9	57.4	68.2	71.1	74.0	73.1	62.8	50.0	60.4	34.1	51.9	1937	24.4	24.8	37.5	50.6	63.0	70.7	74.5	76.8	65.7	52.2	38.2	28.1	51.2
1897	22.3	30.5	40.1	49.4	57.1	60.2	75.9	70.5	70.3	59.3	40.6	26.9	51.0	1938	27.9	38.0	47.9	53.5	61.9	70.1	74.2	76.0	68.9	60.2	44.1	31.5	54.7
1898	31.4	24.9	43.1	48.6	60.3	72.4	75.7	73.0	68.9	52.1	37.1	28.9	51.6	1939	33.7	30.5	42.2	48.0	65.4	73.1	75.7	72.9	71.8	57.0	41.8	34.8	53.9
1899	25.9	18.4	32.4	53.0	63.0	73.0	74.2	75.4	64.2	58.3	43.6	27.4	50.8	1940	14.5	30.7	37.2	49.6	58.7	72.8	76.1	75.1	66.4	60.2	39.8	35.7	51.4
1900	30.5	22.9	33.6	51.8	63.4	69.8	74.7	78.5	68.6	61.0	40.5	30.8	52.2	1941	30.0	27.4	36.3	58.8	64.3	73.0	75.4	74.7	69.7	58.9	44.0	37.6	54.2
1901	24.5	21.0	38.5	44.1	59.8	73.1	70.2	74.5	66.5	55.1	36.5	24.2	50.4	1942	28.1	27.6	43.4	55.9	62.4	71.9	74.4	72.8	65.3	56.0	44.6	25.3	52.5
1902	25.9	17.2	41.6	44.2	65.7	68.5	75.0	70.2	62.6	56.3	47.2	26.8	50.4	1943	28.3	33.5	36.8	50.0	61.1	75.0	77.5	76.2	63.3	55.6	38.4	28.5	52.0
1903	24.1	24.0	44.5	51.1	64.2	65.7	75.1	71.7	65.8	54.4	34.4	22.4	50.1	1944	13.5	32.3	36.7	50.1	67.9	76.3	75.8	74.3	67.2	55.6	44.0	24.4	53.1
1904	14.1	21.9	38.8	44.6	61.5	69.0	72.9	70.6	56.3	53.3	42.3	27.9	49.0	1945	23.1	33.0	31.4	42.6	57.6	68.1	73.5	73.2	66.9	53.3	41.9	23.6	51.5
1905	19.4	17.1	44.3	50.9	62.8	71.3	73.0	75.0	67.7	52.6	39.8	30.0	50.3	1946	24.0	33.6	52.0	54.9	58.9	71.5	75.1	70.3	67.2	60.7	45.7	38.3	54.6
1906	32.4	27.4	29.4	54.3	62.5	69.1	73.4	75.4	69.3	53.3	40.5	32.8	51.7	1947	32.2	24.5	34.3	51.6	59.1	69.0	72.9	61.1	68.1	63.6	37.1	33.5	52.3
1907	31.3	29.3	44.0	42.7	55.6	67.0	74.4	71.1	65.2	51.4	37.9	32.3	50.4	1948	23.4	30.1	40.2	54.1	61.4	73.0	75.5	74.3	68.4	53.0	44.8	34.2	52.9
1908	20.1	27.0	43.3	50.6	62.2	69.5	74.1	73.1	68.4	54.3	42.7	32.3	52.3	1949	30.7	32.4	41.0	51.2	65.8	75.0	79.0	74.4	62.7	50.2	43.8	34.4	54.3
1909	28.6	33.1	34.4	49.5	59.0	70.5	71.3	75.7	63.6	49.3	50.0	20.4	50.8	1950	34.6	30.4	36.7	46.3	64.9	71.0	73.2	70.1	65.7	60.5	36.3	21.5	50.9
1910	27.2	25.6	50.6	52.2	57.2	69.7	74.9	71.3	66.0	57.2	36.9	25.8	51.2	1951	24.1	30.6	38.1	48.6	64.4	68.9	74.1	72.1	63.1	57.3	34.8	20.4	50.9
1911	29.7	33.9	40.0	46.7	67.6	74.6	75.1	73.3	68.0	53.5	35.3	33.6	52.8	1952	30.4	35.9	38.7	53.5	62.0	77.7	77.5	72.7	67.3	51.1	43.7	34.5	53.8
1912	14.2	21.8	30.7	52.3	64.1	67.8	74.5	71.6	67.9	56.5	42.1	33.4	49.7	1953	32.9	36.3	42.8	49.3	64.4	77.4	76.5	74.8	68.5	50.9	44.4	33.3	55.0
1913	31.1	24.6	37.3	51.6	63.2	74.1	78.5	77.7	64.5	53.0	47.8	36.6	53.5	1954	30.5	40.1	38.1	57.6	59.2	74.6	79.2	74.7	71.5	56.8	43.4	33.3	55.1
1914	33.9	20.6	37.3	51.2	63.0	74.5	78.3	75.2	64.2	57.6	44.5	22.4	52.0	1955	28.0	31.7	41.0	58.8	65.1	68.2	80.1	77.2	69.8	56.3	37.9	28.8	53.6
1915	23.4	36.4	35.6	56.4	58.6	67.9	72.2	67.3	68.0	55.5	44.6	29.2	51.3	1956	27.5	31.4	40.3	49.8	63.9	74.1	73.0	73.6	65.6	62.0	40.8	35.7	53.2
1916	30.0	24.7	37.0	60.2	61.9	68.0	80.2	76.8	64.5	54.7	43.9	27.7	51.6	1957	22.0	35.8	40.5	52.4	62.1	72.4	76.9	74.4	64.8	52.5	40.8	35.6	52.5
1917	28.8	23.9	41.6	48.1	55.5	67.4	73.4	70.9	63.3	45.9	43.0	21.6	48.6	1958	27.9	23.4	36.6	52.9	63.6	66.6	73.3	73.9	66.6	54.5	44.4	24.5	50.9
1918	12.0	30.3	44.9	44.6	64.9	70.3	71.9	77.3	58.9	57.3	42.3	38.2	51.4	1959	22.6	30.6	40.5	52.4	66.6	74.1	76.1	78.4	68.9	53.7	34.6	36.3	52.9
1919	31.4	31.7	42.1	52.0	64.5	74.1	77.6	71.9	64.2	58.2	38.8	24.0	52.4	1960	29.5	27.7	26.0	44.9	59.6	69.8	73.9	75.1	71.7	56.1	42.8	23.4	51.0
1920	20.4	29.0	40.8	45.1	60.1	71.5	73.5	71.4	68.6	59.8	40.1	31.3	51.0	1961	24.5	34.8	43.0	44.4	57.8	70.2	75.4	74.0	70.7	54.6	42.2	28.3	52.0
1921	33.4	35.7	40.1	74.1	64.4	75.7	80.1	71.8	70.2	54.7	42.4	33.8	55.5	1962	21.1	30.0	46.7	51.6	69.7	72.4	73.1	73.0	64.0	57.6	42.9	28.7	51.6
1922	24.2	32.0	42.6	52.7	65.5	73.2	74.1	74.1	60.8	58.1	43.3	31.2	53.4	1963	16.4	21.2	43.6	54.5	61.2	73.7	74.0	70.6	67.2	64.1	45.5	18.6	50.9
1923	12.4	24.7	36.5	49.7	60.1	72.0	75.9	72.2	65.5	51.2	42.9	40.1	51.9	1964	30.4	29.6	37.6	53.4	67.3	73.3	75.7	77.7	67.1	53.1	45.3	29.2	52.9
1924	20.3	29.4	35.6	53.0	55.5	68.6	72.0	73.3	61.2	60.0	42.3	24.4	49.8	1965	27.6	29.9	31.3	42.9	68.0	71.1	73.5	71.3	66.9	54.9	44.4	37.5	52.4
1925	24.8	35.5	42.4	57.6	59.2	74.5	75.6	73.4	72.4	45.5	38.9	27.2	52.3	1966	21.0	24.4	41.4	49.2	57.5	72.2	78.7	71.7	64.2	52.2	43.2	30.8	51.0
1926	27.7	33.8	33.5	44.9	64.4	67.4	76.1	75.6	66.6	53.7	37.3	28.0	50.7	1967	29.8	24.4	41.7	49.3	57.4	72.0	72.5	68.9	64.2	53.2	37.9	31.8	50.7
1927	25.4	38.1	43.6	51.8	60.4	66.7	73.6	67.6	70.2	59.0	45.3	28.4	52.5	1968	23.5	25.3	42.8	42.8	58.7	72.8	74.1	74.3	66.5	54.6	41.8	29.0	51.3
1928	27.7	32.4	39.9	47.2	62.0	65.5	75.1	74.3	62.0	57.5	42.6	33.6	51.7	1969	23.2	31.5	34.5	53.3	63.6	68.3	73.7	74.3	66.6	53.9	39.1	28.6	51.2
1929	21.7	23.7	46.7	54.3	58.7	68.8	75.1	70.9	65.1	53.3	36.8	29.0	50.3	1970	38.1	28.0	37.4	53.9	64.0	71.3	74.7	73.2	69.0	55.4	40.5	33.2	51.7

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1971	22.9	29.7	37.1	52.5	60.1	77.1	71.9	71.7	69.9	62.3	43.3	37.4	53.0
1972	24.6	28.1	38.5	50.9	65.5	68.7	74.0	73.5	67.1	51.1	38.6	27.2	50.6
1973	29.8	31.8	48.4	51.4	59.9	73.1	76.1	74.4	68.7	60.1	44.5	27.8	53.8
1974	27.5	31.4	42.6	53.6	60.6	67.5	77.2	71.4	61.2	54.4	41.6	32.1	51.8
1975	30.4	28.5	36.5	47.9	65.8	72.4	73.5	74.8	62.3	56.2	46.8	32.7	52.3
1976	22.5	37.9	45.4	54.2	59.3	71.7	74.1	70.5	63.8	48.9	34.1	23.4	50.5
1977	10.7	28.6	45.0	57.7	70.7	69.8	76.9	71.6	67.8	51.8	42.2	26.1	51.6
1978	16.2	18.1	33.5	51.7	60.5	72.6	73.8	72.3	70.7	52.9	43.5	30.6	49.7
1979	13.3	17.0	39.0	49.3	61.4	72.6	72.4	72.4	66.6	54.2	40.6	34.6	49.5
1980	26.4	22.9	35.8	49.7	64.3	69.4	78.6	76.2	67.3	50.8	41.5	31.3	51.2
1981	24.5	30.7	40.9	56.5	58.6	73.1	73.7	71.6	64.7	52.0	43.4	26.3	51.3
1982	15.6	23.8	38.8	46.7	68.3	67.1	75.3	70.7	65.3	54.9	41.9	37.8	50.5
1983	28.9	34.1	40.5	47.7	58.5	73.1	79.3	78.2	67.7	55.5	44.1	16.3	52.0
1984	21.0	35.8	31.5	49.8	59.2	75.6	72.8	74.1	64.2	58.5	39.5	36.1	51.5
1985	18.7	25.2	43.9	56.7	65.2	69.3	73.7	69.9	66.0	56.4	42.5	20.5	50.6
1986	27.5	26.2	42.8	54.4	64.1	72.2	77.0	69.5	69.4	54.7	37.1	30.9	52.2

## AVERAGE MAXIMUM TEMPERATURE

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1089	36.6	33.0	50.2	64.1	70.5	74.4	82.5	81.2	74.0	59.1	44.0	52.0	60.3
1090	43.3	43.7	42.2	43.5	49.2	84.0	85.9	80.5	72.4	61.0	52.1	41.0	61.7
1091	39.9	42.2	41.1	64.4	72.4	83.9	83.7	84.9	85.3	85.7	44.0	45.0	62.0
1092	27.5	40.9	40.9	57.2	66.7	82.3	84.8	84.7	79.4	67.9	43.5	36.0	59.0
1093	24.5	35.5	40.2	59.6	69.0	83.2	91.7	87.5	81.9	67.2	52.1	30.4	61.8
1094	39.7	33.9	55.6	64.3	71.5	87.4	89.6	87.3	78.7	66.2	45.0	42.0	63.6
1095	29.6	27.8	49.3	64.0	76.0	87.0	86.2	88.5	82.0	61.2	46.0	39.2	61.4
1096	35.3	37.9	43.1	69.0	79.9	81.3	85.2	84.4	73.6	62.0	49.0	41.0	62.1
1097	30.0	37.1	49.0	50.4	68.7	79.0	87.7	83.4	86.9	75.1	69.3	34.1	61.5
1098	37.7	38.2	51.6	59.1	76.0	83.0	87.0	83.7	79.2	60.1	45.5	34.5	62.9
1099	34.0	27.0	40.2	64.0	72.5	83.3	85.7	80.9	70.4	71.0	52.5	36.2	61.2
1000	39.7	32.4	62.4	62.7	73.4	80.2	85.7	89.0	80.6	73.5	50.0	39.2	62.6
1001	37.1	30.1	67.2	59.6	71.0	84.4	93.2	87.5	80.2	67.9	43.9	30.6	61.2
1002	33.0	26.9	49.0	59.2	77.3	79.5	85.9	80.4	73.0	67.2	56.0	33.7	60.1
1003	32.0	30.3	54.7	62.6	76.3	76.4	86.0	82.4	79.0	66.0	46.0	32.0	60.6
1004	27.0	34.7	47.3	58.1	72.5	80.2	83.9	82.7	77.5	65.6	44.4	36.9	59.6
1005	28.4	26.5	54.0	61.0	73.1	83.9	82.3	86.1	78.5	64.4	51.0	39.4	60.7
1006	40.9	37.5	36.2	66.7	74.9	83.9	85.6	86.7	80.9	63.3	49.2	39.6	61.0
1007	30.5	37.0	55.6	51.0	66.1	77.0	84.9	80.4	75.3	62.9	40.2	39.0	59.7
1008	37.8	34.0	53.2	68.4	70.9	79.8	84.2	84.2	82.7	64.4	52.4	41.0	62.3
1009	38.2	41.9	66.7	59.2	69.1	80.7	80.7	87.2	74.2	59.9	40.2	28.0	60.3
1010	33.4	40.0	62.9	63.3	69.4	81.2	85.0	85.5	76.3	69.9	46.6	33.6	61.2
1011	37.7	40.0	50.0	57.0	70.9	89.0	80.0	85.0	76.0	75.1	63.5	39.1	62.7
1012	21.2	29.2	37.0	62.1	73.7	79.0	83.2	81.0	78.4	68.0	51.2	42.7	58.9
1013	39.3	33.4	47.3	61.9	74.3	84.1	90.1	89.1	77.1	61.9	55.3	41.7	63.1
1014	40.3	24.9	44.9	59.7	74.4	85.7	80.4	85.8	76.1	67.1	55.0	29.6	61.5
1015	30.4	42.5	42.3	67.6	68.1	77.0	80.7	75.2	77.0	66.9	54.6	34.0	59.9
1016	39.1	34.5	46.7	59.1	71.7	74.4	91.5	88.0	76.7	66.0	53.3	36.0	61.5
1017	37.5	35.0	51.2	57.4	65.3	76.9	83.4	80.7	74.9	55.8	52.2	29.2	58.1
1018	19.7	39.0	59.0	56.4	75.4	81.5	82.5	87.8	69.1	66.9	50.1	45.3	61.2
1019	40.0	39.4	51.0	62.7	69.4	83.9	89.7	82.5	80.6	68.1	48.1	31.4	62.3
1020	27.6	36.0	50.1	53.4	70.1	82.3	84.7	82.0	74.4	71.2	47.0	38.5	60.3
1021	39.4	42.4	60.2	63.0	74.6	85.0	91.6	81.6	74.1	65.3	50.6	40.4	64.6
1022	33.5	40.2	50.6	62.0	74.9	84.2	84.5	85.5	82.1	69.7	50.9	39.6	63.1
1023	30.2	31.9	46.3	60.6	70.7	81.6	86.2	81.9	74.0	60.0	51.0	47.6	60.9
1024	29.5	36.0	41.5	63.9	69.5	78.0	82.4	83.1	71.1	72.2	51.1	32.3	58.9
1025	33.1	43.8	53.5	69.5	72.3	85.2	86.4	84.7	82.1	82.4	67.1	34.1	62.0
1026	36.7	30.6	41.7	56.5	76.1	77.9	87.3	86.3	74.2	62.0	65.0	34.7	56.3
1027	32.6	45.0	51.5	60.6	69.2	76.2	83.7	77.4	80.3	69.9	54.3	36.5	61.5
1028	35.3	39.0	49.0	57.3	73.6	74.2	89.0	84.0	73.2	66.0	49.4	41.0	60.7
1029	31.2	31.9	56.0	63.7	68.2	78.7	84.5	81.3	75.5	63.0	44.3	36.4	59.6
1030	20.9	47.4	68.5	66.1	74.1	83.0	90.4	80.0	79.0	62.6	51.5	37.0	63.2
1031	40.2	44.9	42.5	62.9	69.5	84.6	80.9	85.5	82.6	68.2	58.2	45.5	64.5
1032	42.5	46.1	61.3	63.0	74.4	83.5	87.7	85.0	76.6	64.3	46.1	37.3	62.3
1033	45.4	34.7	47.9	61.5	72.3	90.9	90.0	83.9	82.9	63.2	50.0	42.1	64.0
1034	40.1	33.4	44.3	63.1	80.8	90.7	92.5	83.8	73.3	60.7	54.0	33.9	63.2
1035	36.0	39.6	55.8	57.7	65.0	76.9	87.4	83.0	77.6	65.1	47.1	31.4	60.3
1036	27.3	28.1	52.3	59.4	76.1	85.6	85.9	90.2	79.9	64.5	47.5	41.9	62.3
1037	36.4	36.0	45.9	59.7	73.3	80.1	84.5	86.9	77.1	61.0	47.4	39.1	60.1
1038	36.8	44.6	57.0	43.2	71.0	79.5	85.9	85.6	70.4	72.6	53.6	30.3	63.0
1039	40.4	34.1	51.7	57.5	77.1	81.4	85.5	83.6	69.0	69.0	50.3	43.1	63.7
1040	21.4	35.2	44.7	59.3	68.5	83.1	88.0	85.7	70.0	71.8	40.4	42.4	60.7
1041	36.2	39.4	65.0	46.5	77.1	83.0	85.8	89.6	80.6	67.6	52.2	43.6	63.1
1042	36.3	53.2	52.2	47.0	72.5	81.5	86.4	82.7	75.7	65.9	53.1	32.0	61.6
1043	35.5	43.7	47.0	61.2	70.5	84.5	89.1	86.3	74.2	66.7	46.5	35.4	61.0
1044	42.1	40.6	44.6	59.5	77.2	87.0	80.0	84.7	77.3	67.5	49.9	31.6	62.8
1045	29.0	40.2	61.9	62.0	77.2	84.0	83.5	74.0	64.2	50.1	30.2	30.2	60.6
1046	37.3	42.5	62.3	66.2	67.8	82.5	86.1	81.0	79.4	73.1	54.2	45.0	64.0
1047	39.0	32.1	62.0	61.1	68.9	76.1	83.5	92.1	79.0	74.7	43.9	40.3	61.3
1048	30.9	38.4	48.2	64.0	72.0	84.0	85.7	86.2	80.3	63.0	53.6	42.6	62.7
1049	30.2	40.1	50.4	62.3	77.6	84.9	89.1	84.4	73.9	64.9	52.9	44.6	63.4
1050	43.4	37.6	44.0	54.9	75.9	81.0	83.6	80.3	74.4	71.5	44.3	29.5	60.1
1051	36.5	37.5	46.0	57.3	75.6	77.9	83.5	82.7	73.0	68.4	42.2	37.2	59.9
1052	37.5	42.9	47.4	64.0	71.5	88.2	83.4	83.4	80.7	64.2	53.2	40.4	63.5
1053	39.0	45.4	91.2	58.9	75.1	89.1	87.2	87.5	83.9	73.0	50.4	41.0	65.6
1054	30.5	46.2	66.7	60.1	70.5	87.9	91.0	83.9	84.0	64.5	51.7	39.9	65.0
1055	34.2	39.4	51.2	69.4	74.0	77.9	89.0	83.9	81.9	64.5	47.4	36.0	63.1
1056	35.4	39.4	50.5	60.5	74.9	85.1	82.5	83.7	78.0	75.4	50.1	41.7	63.1
1057	29.2	42.5	49.3	60.4	71.5	82.3	86.7	84.5	75.2	62.3	40.6	43.2	61.3
1058	34.3	31.9	42.6	43.1	74.9	77.0	81.5	84.1	77.1	60.3	53.5	32.9	61.0
1059	30.9	38.6	50.3	42.6	76.5	86.0	87.4	88.4	80.4	63.3	42.0	42.3	62.5
1060	36.1	32.4	53.7	45.5	68.5	79.3	80.6	85.5	82.7	67.4	52.0	33.1	60.1
1061	32.1	43.1	50.8	55.4	68.9	81.3	85.5	84.3	82.1	66.5	49.0	35.0	61.3
1062	28.3	36.0	43.9	62.1	80.0	83.3	82.6	83.6	74.0	67.7	50.7	35.4	60.4
1063	24.2	31.3	52.9	64.2	72.3	86.5	86.2	81.2	79.0	77.3	50.3	28.4	61.3
1064	40.2	37.4	46.1	63.1	79.2	86.4	86.6	84.5	70.3	65.4	59.4	35.5	62.9
1065	36.7	39.2	38.6	42.6	79.1	81.5	83.4	81.1	74.6	65.0	53.6	46.3	61.0
1066	24.7	37.5	51.0	54.3	68.5	80.1	80.2	81.9	74.4	62.0	51.7	36.9	60.1
1067	37.9	33.3	50.3	63.4	67.9	83.3	83.1	80.0	79.9	62.6	44.0	39.3	60.1
1068	31.0	33.4	59.4	63.4	67.7	83.3	84.3	83.9	77.5	65.6	40.0	38.0	60.6
1069	30.5	37.8	43.3	64.0	74.8	80.5	87.1	85.2	77.0	64.3	44.9	30.6	60.5
1070	29.5	36.6	44.9	63.0	77.2	81.2	85.1	82.0	80.0	64.5	47.0	41.1	60.9
1071	31.7	37.0	45.0	65.3	70.7	89.2	81.7	82.6	80.1	72.9	52.3	44.2	62.8
1072	32.9	37.0	40.2	60.9	76.0	80.9	83.5	83.3	76.9	59.9	43.2	33.0	59.7
1073	36.8	39.3	56.5	60.0	69.4	83.5	86.0	84.0	70.3	69.0	52.4	34.6	62.6
1074	34.2	39.4	51.4	63.4	69.1	76.7	87.9	80.6	71.1	65.6	48.6	37.1	60.4
1075	36.8	34.3	44.5	58.0	76.9	82.6	83.4	84.2	72.3	67.4	54.8	38.7	61.2
1076	30.3	47.2	55.6	66.4	70.4	82.6	86.6	81.1	76.1	58.0	43.5	33.2	60.8
1077	18.4	36.1	54.1	69.4	82.4	90.7	87.9	81.0	78.3	61.6	49.0	32.9	61.0
1078	23.7	25.4	40.7	61.7	69.0	83.3	83.5	81.7	82.6	69.6	51.3	37.7	58.7
1079	20.7	25.1	47.4	50.0	73.7	83.0	82.4	81.3	78.6	64.5	40.4	42.5	59.0
1080	33.2	30.0	43.4	59.2	75.2	80.6	90.2	87.0	79.6	61.9	50.1	38.1	60.7
1081	32.1	39.7	50.6	66.0	68.0	82.7	82.7	80.7	74.9	62.2	52.0	33.1	60.5
1082	24.7	30.7	46.4										

# HEATING DEGREE DAYS

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL	YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	ANNUAL
1902-1903	2	14	157	321	548	1191	1282	1107	653	430	127	55	5695	1944-1945	0	4	56	321	643	1271	1314	913	438	377	267	62	5671
1903-1904	0	12	97	368	873	1334	1465	1263	831	404	160	16	7023	1945-1946	0	5	70	368	705	1247	1129	895	418	335	213	34	5566
1904-1905	10	16	62	305	802	1167	1478	1359	658	443	121	10	6347	1946-1947	0	12	54	170	606	910	1032	1152	969	617	215	40	5566
1905-1906	0	0	39	411	772	1102	1022	1063	1125	335	161	33	6043	1947-1948	10	0	104	100	840	900	1306	1028	785	317	161	2	5651
1906-1907	0	5	72	376	754	1014	1063	1020	602	479	321	50	5915	1948-1949	0	3	50	369	618	972	1079	923	757	425	87	4	5307
1907-1908	1	12	114	441	799	1027	1129	1114	649	452	193	60	6013	1949-1950	0	5	120	237	649	807	958	941	690	581	81	14	5375
1908-1909	7	7	44	358	646	1031	1141	905	641	481	218	24	5761	1950-1951	1	18	74	190	902	1340	1078	964	834	506	107	20	6034
1909-1910	12	1	124	504	663	1404	1190	1122	475	408	265	74	6047	1951-1952	1	5	49	274	906	1105	1065	844	815	361	161	1	5635
1910-1911	0	12	63	282	862	1226	1109	883	794	502	107	1	5861	1952-1953	1	5	62	440	641	947	995	805	600	471	113	0	5167
1911-1912	4	15	30	378	906	988	1497	1270	1080	392	123	39	6835	1953-1954	0	0	50	204	617	984	1088	691	833	255	219	20	4961
1912-1913	1	21	113	299	697	996	1066	1144	877	420	148	36	5818	1954-1955	0	0	25	327	649	984	1148	933	749	190	84	49	5138
1913-1914	0	0	111	400	534	897	978	1255	669	461	154	21	5660	1955-1956	0	0	27	286	813	1122	1162	966	765	362	149	30	5762
1914-1915	0	5	91	254	637	1334	1299	916	933	305	227	34	5961	1956-1957	0	4	80	122	741	910	1332	704	764	412	138	8	5307
1915-1916	11	55	67	310	629	1127	1100	1128	680	493	183	49	6037	1957-1958	0	1	84	388	726	907	1149	1166	680	371	103	40	5815
1916-1917	0	4	135	358	646	1169	1133	1166	738	527	330	55	6271	1958-1959	0	0	63	284	618	1257	1316	943	759	383	93	0	5756
1917-1918	2	21	104	408	875	1358	1667	986	572	506	121	24	6706	1959-1960	0	0	56	366	914	889	1097	1098	1154	331	204	0	6109
1918-1919	20	0	205	264	700	443	1056	940	726	410	231	3	5466	1960-1961	0	0	20	286	660	1234	1256	845	664	561	245	0	5799
1919-1920	0	3	33	272	775	1284	1400	1055	763	614	195	29	6423	1961-1962	0	0	68	276	686	1139	1363	980	877	422	41	0	5852
1920-1921	0	20	40	212	575	1058	997	835	512	346	167	10	4934	1962-1963	0	0	112	268	686	1186	1495	1219	655	316	151	0	6066
1921-1922	0	10	27	330	691	984	1147	935	713	366	59	4	5334	1963-1964	0	0	49	91	575	1424	1051	989	838	345	48	0	5410
1922-1923	2	2	53	282	666	1065	893	1146	897	471	191	31	5699	1964-1965	0	0	81	371	593	1108	1162	987	1043	367	42	0	5754
1923-1924	2	17	40	443	674	787	1398	1050	928	380	310	44	6115	1965-1966	0	0	71	326	612	846	1331	988	719	488	254	0	5615
1924-1925	19	5	161	192	708	1278	1264	836	713	271	257	5	57004	1966-1967	0	0	102	301	648	1053	1090	1130	715	359	273	0	5757
1925-1926	4	2	29	627	600	1182	1172	895	994	621	122	41	6489	1967-1968	0	0	107	384	887	1020	1281	1150	649	361	207	0	5984
1926-1927	4	0	93	395	641	1165	1241	768	679	409	193	63	5853	1968-1969	0	0	33	341	680	1109	1276	931	943	342	139	0	5804
1927-1928	0	29	44	272	609	1147	1171	960	795	554	134	68	5763	1969-1970	0	0	79	321	709	1072	1175	1030	784	417	172	0	5763
1928-1929	0	1	140	272	644	944	1360	1170	582	257	267	42	5699	1970-1971	2	1	41	303	725	983	1296	984	858	382	174	0	5769
1929-1930	2	4	103	375	859	1133	1378	728	826	344	114	26	5900	1971-1972	3	2	55	129	645	845	1246	1065	813	415	106	38	5362
1930-1931	5	0	62	409	602	1062	1019	784	911	388	238	30	5540	1972-1973	9	6	64	423	783	1164	1086	921	507	609	168	0	5342
1931-1932	0	2	35	235	454	888	912	798	948	385	120	2	5757	1973-1974	0	0	34	190	607	1142	1158	935	689	344	173	36	5308
1932-1933	1	2	76	349	890	1110	859	1017	794	414	119	14	5629	1974-1975	0	9	147	330	694	1012	1065	1016	876	508	80	13	5750
1933-1934	0	0	12	383	745	963	1082	1136	932	600	42	0	5662	1975-1976	14	0	143	277	538	993	1312	779	601	342	193	0	5192
1934-1935	0	16	67	232	640	1146	1172	909	578	497	289	50	5527	1976-1977	0	1	92	506	921	1283	1679	1010	608	265	48	27	6440
1935-1936	0	27	80	324	744	1257	1404	1367	491	428	89	15	6500	1977-1978	0	1	32	402	679	1199	1505	1308	970	393	219	7	6715
1936-1937	0	0	44	333	802	944	1142	1031	865	447	153	24	5827	1978-1979	0	0	37	368	635	1061	1595	1337	797	466	172	6	6474
1937-1938	1	0	113	429	899	1161	1149	771	548	360	166	9	5952	1979-1980	2	12	55	352	724	934	1189	1215	898	460	96	28	5965
1938-1939	0	0	68	216	644	1056	991	982	724	528	103	19	5329	1980-1981	0	2	57	444	699	1037	2239	956	740	266	219	2	5670
1939-1940	0	0	30	305	712	949	1579	1007	875	478	237	6	6187	1981-1982	2	3	85	401	638	1194	1524	1147	806	542	26	36	6403
1940-1941	8	12	97	192	770	921	1096	1064	901	285	98	7	5443	1982-1983	0	12	88	345	688	835	1113	860	754	515	203	12	5425
1941-1942	1	2	54	246	646	866	1161	1060	683	312	162	31	5218	1983-1984	3	0	85	306	621	1501	1361	839	1032	456	196	0	6398
1942-1943	0	11	166	299	605	1246	1151	893	884	467	175	16	5913	1984-1985	0	0	140	212	758	887	1428	1107	653	281	69	33	6015
1943-1944	0	3	143	307	807	1149	993	959	844	467	112	7	5841	1985-1986	0	9	120	271	669	1375	1156	1080	690	335	101	13	5819
1944-1945	0	3	143	307	807	1149	993	959	844	467	112	7	5841	1986-1987	0	25	34	322	831	1050	1262	861	637	370	40	1	5413

# COOLING DEGREE DAYS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
1889	0	0	0	0	60	105	223	137	93	0	0	0	618	1936	0	0	0	1	101	226	566	441	216	12	0	0	1561	
1890	0	0	0	7	41	292	240	134	56	13	0	0	783	1937	0	0	0	3	82	192	298	366	125	18	0	0	1084	
1891	0	0	0	0	9	13	232	160	230	185	27	0	856	1938	0	0	2	11	60	162	347	340	181	56	1	0	1160	
1892	0	0	0	0	0	20	207	266	236	76	25	0	830	1939	0	0	4	1	117	262	332	246	240	47	0	0	1249	
1893	0	0	0	0	4	29	201	398	232	187	26	0	1077	1940	0	0	0	0	3	33	241	356	321	130	30	0	0	1114
1894	0	0	0	0	25	51	279	272	269	126	6	0	1028	1941	0	0	0	0	21	132	264	321	303	189	36	0	0	1246
1895	0	0	1	12	141	256	207	285	190	0	0	0	1092	1942	0	0	0	22	81	233	360	251	168	6	1	0	1122	
1896	0	0	0	57	124	205	291	270	87	4	0	0	1038	1943	0	0	0	1	46	315	388	347	78	6	0	0	1181	
1897	0	0	0	0	2	20	167	344	188	218	46	0	987	1944	0	0	0	0	183	344	335	297	112	17	0	0	1288	
1898	0	0	0	0	1	17	237	328	258	158	26	0	1025	1945	0	0	3	2	25	153	270	259	133	0	0	0	845	
1899	0	0	0	37	70	255	292	332	131	40	0	0	1157	1946	0	0	0	16	15	253	313	175	115	36	0	0	895	
1900	0	0	0	0	6	98	167	307	426	187	51	0	1242	1947	0	0	0	0	19	152	252	500	193	59	0	0	1175	
1901	0	0	0	0	10	37	277	483	305	132	9	0	1253	1948	0	0	0	34	34	243	325	291	154	3	0	0	1084	
1902	0	0	0	7	133	156	321	176	44	8	1	0	846	1949	0	0	0	0	103	304	434	300	43	43	0	0	1227	
1903	0	0	3	3	96	73	314	218	118	24	0	0	849	1950	0	0	0	2	73	196	255	174	88	41	6	0	835	
1904	0	0	0	1	38	132	252	187	96	6	0	0	712	1951	0	0	0	14	89	137	283	224	42	36	0	0	825	
1905	0	0	1	1	39	199	249	309	113	11	0	0	922	1952	0	0	0	16	87	368	389	244	132	9	2	0	1227	
1906	0	0	0	3	74	154	261	334	146	1	0	0	973	1953	0	0	0	0	94	372	356	305	154	46	0	0	1327	
1907	0	23	0	0	22	114	293	199	110	11	0	0	772	1954	0	0	0	33	39	368	439	286	221	74	0	0	1460	
1908	0	0	0	0	96	170	288	255	194	14	0	0	1017	1955	0	0	0	3	87	146	467	378	172	15	1	0	1269	
1909	0	0	0	2	20	184	205	332	75	0	1	0	819	1956	0	0	0	6	113	303	247	273	99	27	0	0	1068	
1910	0	0	12	10	11	211	308	206	88	30	0	0	876	1957	0	0	0	32	46	229	370	292	82	0	0	0	1051	
1911	0	0	0	0	160	288	352	271	124	12	0	0	1227	1958	0	0	0	9	59	87	260	280	115	21	0	0	831	
1912	0	0	0	2	88	117	296	224	194	23	0	0	944	1959	0	0	0	5	144	282	344	416	173	17	0	0	1381	
1913	0	0	0	2	80	306	419	394	152	18	0	0	1371	1960	0	0	0	28	36	160	273	312	222	11	0	0	1042	
1914	0	0	0	16	110	303	411	318	90	18	0	0	1266	1961	0	0	0	3	22	180	329	281	236	15	0	0	1069	
1915	0	0	0	40	14	117	230	113	153	0	1	0	668	1962	0	0	0	21	186	235	253	251	81	45	0	0	1072	
1916	0	0	0	0	68	82	473	359	101	20	0	0	1103	1963	0	0	1	12	36	281	289	200	115	73	0	0	1007	
1917	0	0	0	4	28	126	266	185	40	0	0	0	649	1964	0	0	0	6	127	269	341	251	148	0	0	0	1142	
1918	0	0	0	0	133	171	226	382	9	10	0	0	911	1965	0	0	0	5	142	189	269	215	135	20	0	0	975	
1919	0	0	0	1	50	273	392	218	155	49	0	0	1138	1966	0	0	0	0	24	233	435	205	85	1	0	0	983	
1920	0	0	0	0	37	218	265	214	145	45	0	0	926	1967	0	0	2	13	47	251	242	155	89	23	0	0	822	
1921	0	0	7	8	137	330	468	225	179	2	0	0	1356	1968	0	0	1	15	251	295	292	87	28	0	0	0	969	
1922	0	0	0	1	68	248	283	284	189	53	0	0	1126	1969	0	0	0	0	103	180	392	297	106	26	0	0	1104	
1923	0	0	0	0	29	240	339	239	91	1	0	0	939	1970	0	0	0	27	121	214	309	262	164	7	0	0	1106	
1924	0	0	0	7	8	146	232	259	38	22	3	0	715	1971	0	0	0	13	31	369	225	218	212	53	1	0	1122	
1925	0	0	33	65	289	332	270	247	7	0	0	0	1243	1972	0	0	0	0	127	154	295	278	135	0	0	0	991	
1926	0	0	0	3	98	108	351	328	138	27	0	0	1053	1973	0	0	0	6	14	249	353	299	148	45	0	0	1114	
1927	0	0	0	5	36	107	268	101	222	26	0	0	765	1974	0	0	4	10	46	117	385	217	41	7	0	0	827	
1928	0	0	0	0	37	79	312	288	86	32	0	0	834	1975	0	0	0	0	110	241	284	310	66	13	0	0	1024	
1929	0	1	24	61	154	315	187	101	0	0	0	0	843	1976	0	0	0	26	22	209	289	179	62	15	0	0	802	
1930	0	0	0	28	71	201	419	344	161	27	0	0	1251	1977	0	0	0	0	53	230	180	378	213	123	0	1	1180	
1931	0	0	0	0	8	45	304	419	303	254	46	0	1379	1978	0	0	0	0	88	242	281	235	216	1	0	0	1063	
1932	0	0	0	1	74	245	371	293	95	10	0	0	1089	1979	0	0	0	2	67	244	242	247	114	24	0	0	940	
1933	0	0	0	2	69	405	419	254	234	5	2	0	1390	1980	0	0	0	9	82	167	431	358	134	12	0	0	1193	
1934	0	0	0	0	139	413	495	298	81	7	0	0	1433	1981	0	0	0	9	82	167	431	358	134	12	0	0	1193	
1935	0	0	1	8	14	130	403	318	117	15	0	0	1006	1982	0	0	1	18	27	251	281	213	81	6	0	0	878	

MONTH	TEMPERATURE							MEAN DEGREE DAYS			PRECIPITATION						
	MEANS			EXTREMES				HEATING BASE 65°F	COOLING BASE 65°F	GROWING BASE 50°F	AVERAGE TOTAL	MAXIMUM MONTHLY	YEAR	MINIMUM MONTHLY	YEAR	MAXIMUM IN 24 HOURS	YEAR
	DAILY MAXIMUM	DAILY MINIMUM	DAILY AVERAGE	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR										
JAN	32.3	17.0	24.7	70	1909	-24	1985	1249	0	1	1.97	7.62	1950	0.06	1986	2.17	1982
FEB	37.3	21.3	29.3	71	1972	-25	1889	1000	0	2	1.88	5.80	1909	0.15	1947	1.78	1939
MAR	47.8	30.4	39.1	85	1907	-5	1906	803	0	28	3.32	8.35	1922	0.38	1910	4.28	1939
APR	62.6	41.9	52.3	91	1930	15	1899	381	0	158	3.84	9.55	1964	0.50	1899	3.73	1964
MAY	73.5	52.0	62.8	97	1934	24	1891	155	34	410	3.59	11.20	1943	0.22	1925	4.61	1921
JUN	82.8	60.9	71.9	103	1934 <sup>2</sup>	34	1894	18	120	664	3.92	10.98	1902	0.47	1936	4.00	1968
JUL	85.5	64.8	75.2	109	1954	41	1904	0	177	788	4.35	10.96	1971	0.47	1916 <sup>3</sup>	3.98	1962
AUG	83.6	62.8	73.2	101	1901 <sup>4</sup>	37	1893	0	123	726	3.66	10.01	1977	0.06	1898	3.90	1924
SEP	78.3	55.5	66.9	102	1899	24	1899	57	43	514	3.02	9.76	1926	0.25	1954	4.07	1931
OCT	66.2	44.4	55.3	93	1954	12	1895	320	6	218	2.51	9.01	1941	0.16	1964	3.66	1955
NOV	49.8	33.2	41.5	80	1950	-5	1950	705	0	40	2.48	10.08	1985	T	1904	4.07	1936
DEC	37.6	23.3	30.5	70	1948	-20	1983	1070	0	3	2.50	6.63	1967	0.05	1890	2.91	1966

Mean data representative of 1951-1980. Extreme based on 1889-1987.

<sup>1</sup> Also occurred in 1914.

<sup>2</sup> Also occurred in 1953.

<sup>3</sup> Also occurred in 1930.

<sup>4</sup> Also occurred in 1918; 1936; and 1964.

\*\* Less than once in 2 years.

	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST
1971	W	8.4	56	S	10.3	65	NW	10.2	63	S	8.8	50	S	7.5	48	SW	6.5	43
1972	S	8.5	52	SW	8.2	44	N	8.9	47	S	8.2	40	NE	5.8	51	N	6.0	37
1973	SW	8.7	47	NW	6.9	39	NE	8.6	51	SW	8.5	48	SW	7.8	47	SW	6.7	41
1974	SW	6.9	71	NW	9.0	53	SW	8.5	53	S	9.1	47	SE	6.8	54	SW	8.4	56
1975	SW	9.0	60	NW	9.0	54	SE	8.2	57	SE	8.8	50	SW	6.1	47	SW	6.3	43
1976	W	8.7	42	SW	10.2	43	S	9.8	56	S	7.4	45	SW	6.9	49	SW	6.0	47
1977	W	8.4	46	SW	7.7	49	SE	8.6	59	SW	7.7	53	SW	5.2	60	SW	5.8	36
1978	W	8.5	57	N	5.3	34	NE	7.5	39	E	8.3	43	E	7.2	45	S	6.3	37
1979	W	6.2	36	SE	5.8	40	SE	6.0	41	NE	6.4	40	SE	5.4	37	S	5.2	31
1980	NW	6.7	55	NW	6.1	51	NE	8.1	44	NE	7.2	58	NE	4.9	43	S	4.8	46
1981	NW	6.8	36	S	8.4	41	SW	7.3	48	S	8.7	52	N	7.1	40	SW	6.0	55
1982	NW	8.6	54	NE	6.6	37	NW	8.3	49	NW	7.6	65	S	4.6	44	SW	5.3	36
1983	NW	6.5	40	SE	5.8	33	SE	7.0	32	SW	7.1	45	SE	6.9	48	SE	4.9	28
1984	S	7.9	34	S	8.0	41	E	8.2	38	E	19.0	53	S	7.1	40	S	6.9	57
AVG. (1951-1980)	W	8.1	71	S	8.2	65	S	8.6	63	S	8.5	65	S	7.0	60	SSW	6.0	65

Max gust from 1951-1984 data.

SNOW					MEAN NUMBER OF DAYS													MONTH
AVERAGE TOTAL	MAXIMUM MONTHLY	YEAR	MAXIMUM IN 24 HOURS	YEAR	TEMPERATURE				PRECIP. 0.1 INCH OR MORE	PRECIP. 0.50 INCH OR MORE	PRECIP. 1.00 INCH OR MORE	THUNDER- STORMS	HAIL	SLEET	WINDS 30 mph AND ABOVE	FOG		
					MAX		MIN											
					90 AND ABOVE	32 AND BELOW	32 AND BELOW	0 AND BELOW										
7.2	28.3	1979	11.4	1982	0	15	28	4	4	1	0	1	**	2	7	4	JAN	
6.1	18.5	1905 <sup>1</sup>	11.0	1912	0	9	24	1	4	1	0	1	**	2	7	3	FEB	
5.0	32.0	1906	14.0	1906	0	3	19	0	7	2	1	3	1	1	11	4	MAR	
0.6	8.0	1920	6.0	1920	0	0	4	0	7	2	1	5	1	**	11	2	APR	
0.0	2.5	1929	2.5	1929	1	0	0	0	7	3	1	6	1	0	8	3	MAY	
0	0		0		6	0	0	0	6	3	1	7	1	0	5	1	JUN	
0	0		0		8	0	0	0	6	3	1	7	**	0	3	2	JUL	
0	0		0		5	0	0	0	6	3	1	7	**	0	2	4	AUG	
0	T	1942	0		3	0	0	0	5	2	1	4	**	0	3	3	SEP	
0	2.5	1925	2.0	1925	0	0	3	0	5	1	1	2	**	**	4	3	OCT	
2.9	11.2	1932	9.1	1980	0	2	15	0	5	2	1	1	**	1	7	3	NOV	
4.6	20.0	1983	9.5	1973	0	9	25	1	5	1	0	1	0	3	7	5	DEC	

JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			ANNUAL		
DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST	DIR	SPEED	GUST
S	5.3	41	NE	5.0	42	S	5.8	46	S	5.7	52	S	7.7	44	S	7.7	81	S	7.5	81
S	5.4	36	SW	5.6	56	NW	6.7	49	SW	6.5	32	NW	6.6	39	NW	6.9	40	SW	6.9	52
SW	5.4	54	SW	5.0	40	SE	5.1	30	SW	5.5	36	SW	7.3	43	SE	7.8	57	SW	7.0	57
SW	6.3	31	SW	4.4	47	SW	5.4	36	SW	6.7	40	SW	7.2	37	SW	7.1	38	SW	7.2	71
SW	4.3	39	SW	4.9	42	SW	4.7	39	S	6.5	38	SW	7.8	50	S	7.9	52	SW	7.0	60
SW	4.9	48	SW	4.4	27	SW	5.0	40	SW	5.6	38	NW	7.5	43	SW	8.2	39	SW	7.1	56
SW	5.5	43	SW	5.0	59	SW	5.3	33	SW	6.2	33	NE	7.7	44	S	9.2	49	SW	6.9	60
SW	5.2	39	SE	4.4	50	SW	5.2	30	SW	6.5	39	NE	7.1	47	SW	8.8	43	SW	6.7	57
NE	3.5	30	SW	4.2	33	SW	3.3	21	SW	6.3	39	NW	6.7	48	S	7.4	57	SW	5.7	57
SW	5.0	35	S	4.5	36	S	4.0	34	SW	5.2	36	SW	7.0	48	S	6.1	44	S	5.8	58
NE	4.3	39	SW	4.7	39	SW	5.8	47	SE	6.8	53	SE	6.2	54	NW	6.9	40	SW	6.6	55
SW	4.8	33	SW	4.0	47	S	4.0	28	S	4.6	44	S	9.5	45	S	6.6	47	S	6.0	65
SW	5.2	36	NE	4.5	30	S	4.8	31	S	6.4	37	S	8.6	43	SW	8.3	41	S	6.3	48
S	5.6	33	S	5.1	23	S	6.5	35	S	5.4	33	S	7.6	36	S	8.1	43	S	7.1	57
SW	5.0	61	SW	4.8	66	SSW	5.2	52	SW	6.3	53	S	7.8	70	S	8.1	81	SW	7.0	81

## PRECIPITATION

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1888	1.48	2.08	1.41	0.61	3.52	8.00	5.81	0.60	2.74	1.42	4.28	1.02	35.97
1889	5.26	1.07	2.70	4.11	3.56	3.80	2.83	1.93	1.19	2.35	1.63	0.05	31.28
1890	0.99	2.60	3.55	3.54	0.89	2.08	1.41	2.86	0.41	1.29	3.91	1.33	25.06
1891	0.79	2.64	2.59	4.45	7.06	5.36	2.50	2.43	0.93	0.93	2.95	1.62	39.05
1892	1.05	0.48	3.20	7.60	4.93	1.55	0.59	0.06	3.62	1.14	2.08	1.09	32.27
1893	1.95	1.33	2.41	1.09	3.34	1.78	1.08	2.06	4.21	0.51	1.95	1.36	23.87
1894	1.36	0.52	0.70	2.42	2.20	2.24	7.61	1.81	5.27	0.21	3.07	5.71	29.12
1895	1.12	1.95	1.22	1.89	5.62	2.98	7.87	3.74	5.84	0.42	2.87	0.39	35.91
1896	3.91	1.09	4.10	4.22	1.80	5.16	4.68	0.63	0.31	0.44	4.91	2.67	33.92
1897	4.77	1.43	7.76	2.69	5.65	6.08	1.89	3.61	5.19	4.53	3.01	1.86	49.47
1898	1.97	2.33	1.74	0.50	6.09	2.29	2.65	2.29	1.07	5.10	1.39	2.14	29.56
1899	0.17	3.61	1.79	0.84	4.60	4.11	3.81	6.23	2.23	2.39	3.42	0.98	34.18
1900	1.55	1.41	3.14	0.80	1.93	5.80	2.68	1.68	1.30	4.10	1.31	3.06	28.64
1901	0.62	1.40	1.70	2.11	2.60	1.58	4.02	0.80	4.90	2.10	2.43	2.94	46.28
1902	1.04	2.40	1.43	5.71	3.95	2.56	5.13	2.33	0.99	2.70	2.06	2.10	32.48
1903	3.09	1.86	7.66	3.97	1.60	1.17	2.72	3.55	2.53	0.81	7.03	29.79	
1904	1.40	2.27	0.75	2.95	4.24	1.30	5.40	2.14	2.88	3.11	1.45	1.31	29.60
1905	1.65	1.11	4.61	2.23	3.31	3.08	2.16	4.57	2.45	1.36	4.59	3.13	34.25
1906	6.09	0.24	3.34	2.36	5.04	5.56	5.41	4.62	0.94	1.51	1.99	3.32	40.20
1907	1.21	4.09	3.20	5.00	7.03	1.90	2.31	2.05	1.95	0.21	1.99	1.44	35.27
1908	2.17	5.00	1.76	7.44	5.50	3.75	7.57	2.37	2.36	2.25	3.45	2.55	47.05
1909	2.23	1.79	0.50	1.57	5.33	2.89	2.76	2.62	4.14	1.34	1.20	1.90	27.96
1910	2.27	1.19	1.85	3.59	2.44	0.62	0.62	3.35	8.90	3.10	2.63	1.35	32.31
1911	1.36	2.20	3.62	5.60	4.16	1.89	3.68	2.04	1.76	2.95	1.77	0.57	31.90
1912	5.30	1.10	5.99	2.19	0.16	1.73	1.52	1.44	2.50	4.03	4.49	0.77	31.70
1913	1.97	2.50	0.89	2.07	1.94	2.40	1.44	2.66	2.11	2.85	0.80	2.25	26.68
1914	1.03	2.33	1.12	1.59	5.11	2.90	7.30	4.90	2.58	0.64	1.02	2.85	34.23
1915	6.02	0.63	1.14	1.28	5.70	3.80	0.67	1.72	2.69	2.26	1.93	1.99	29.71
1916	1.07	0.45	4.43	3.26	4.91	6.49	2.73	3.80	2.01	2.34	0.10	0.60	32.23
1917	1.76	1.86	1.57	6.78	4.70	5.43	2.51	4.15	4.91	2.62	1.73	3.99	43.19
1918	0.21	1.92	4.12	0.75	3.29	4.60	4.47	2.47	5.59	3.37	0.12	35.25	
1919	0.83	0.45	3.40	5.69	3.80	0.94	3.04	3.19	1.79	2.02	1.29	2.81	29.29
1920	1.60	0.99	5.02	5.25	5.26	1.68	2.54	4.26	5.64	2.23	4.91	1.90	41.66
1921	1.23	1.60	8.35	7.64	3.70	1.03	2.51	2.87	0.57	3.17	2.30	1.81	36.73
1922	1.57	1.34	5.25	9.56	5.26	3.20	3.26	4.08	2.99	3.78	1.68	5.01	40.38
1923	1.70	1.93	2.78	3.61	2.69	0.68	0.86	7.65	2.22	1.36	0.83	6.13	40.86
1924	0.73	1.28	4.62	1.85	0.22	2.28	1.12	3.44	5.24	4.60	2.81	1.19	29.30
1925	1.06	2.90	2.75	4.01	1.54	4.60	2.60	5.79	9.76	4.65	2.46	0.93	43.53
1926	1.67	1.22	3.04	6.40	5.01	5.87	4.02	4.70	6.21	4.15	6.77	3.55	55.64
1927	2.18	2.20	1.45	3.16	2.48	4.65	3.59	2.77	3.65	2.34	1.88	2.53	32.96
1928	3.56	0.53	2.92	6.40	7.80	2.71	6.44	4.77	0.94	3.72	1.36	2.96	44.13
1929	4.01	1.77	1.87	4.07	1.53	2.23	0.67	2.02	2.90	1.62	1.49	0.22	29.08
1930	0.47	1.26	2.62	4.43	3.97	4.33	4.26	2.90	5.41	2.20	2.54	2.00	36.47
1931	2.60	1.69	1.83	1.31	1.28	3.57	2.41	2.63	3.63	3.84	2.37	3.93	31.09
1932	1.96	1.40	5.30	3.35	5.84	1.19	0.61	4.40	5.14	3.41	0.67	1.12	34.47
1933	1.42	0.76	3.60	1.03	0.53	5.33	2.09	4.87	6.99	0.87	5.44	2.22	35.15
1934	2.17	1.27	2.69	2.07	6.93	3.64	4.12	2.36	3.94	1.65	4.25	1.32	37.21
1935	1.20	2.61	1.55	3.00	3.94	0.47	1.35	3.54	5.83	3.49	4.16	3.67	35.09
1936	5.97	1.49	0.76	3.38	2.59	5.43	2.43	0.80	5.34	3.92	1.49	2.05	37.65
1937	1.58	2.28	7.20	3.42	4.97	5.67	6.45	4.28	0.88	2.50	1.57	1.97	42.77
1938	3.72	3.72	4.83	5.39	1.19	6.17	1.73	6.38	0.32	2.54	1.13	0.93	38.05
1939	1.43	1.10	2.07	1.96	4.53	5.04	0.95	2.80	0.40	1.93	3.63	2.48	30.60
1940	1.34	0.68	1.46	4.21	3.94	6.19	3.27	3.61	4.91	9.01	3.53	0.98	42.87
1941	1.43	3.84	4.12	3.32	3.57	3.92	4.96	2.50	3.89	2.36	5.40	2.51	42.38
1942	0.62	1.09	3.00	3.47	1.20	2.43	1.47	3.94	2.12	2.00	1.17	1.50	35.54
1943	0.37	3.70	4.65	7.43	7.70	2.61	3.82	3.05	2.82	1.29	3.4	1.15	40.73
1944	0.36	1.49	6.10	4.17	5.09	7.33	3.27	5.09	7.27	2.65	2.62	2.49	46.01
1945	1.55	2.66	3.29	1.45	6.85	5.77	2.74	2.11	1.15	2.65	3.90	1.54	35.66
1946	2.01	0.15	2.23	4.47	4.51	9.38	2.04	2.05	2.16	3.69	1.99	1.91	36.90
1947	1.26	3.62	4.53	1.97	4.10	6.41	4.30	1.99	3.01	1.60	2.46	3.15	41.36
1948	6.21	2.96	2.40	2.26	4.43	4.57	4.46	2.37	1.67	7.73	1.00	5.00	45.44
1949	7.62	3.71	1.77	4.53	1.80	4.32	5.09	1.65	4.36	2.29	3.67	2.10	42.99
1950	2.07	3.91	3.69	3.07	2.49	4.98	3.66	4.71	2.13	2.76	2.41	2.91	39.39
1951	1.94	1.79	3.66	3.02	5.02	5.70	2.99	2.76	1.67	1.34	2.62	1.46	33.07
1952	2.34	1.49	7.13	1.57	1.94	2.92	3.83	0.68	0.59	1.71	0.72	1.17	26.09
1953	1.81	1.56	1.94	4.15	3.03	2.73	2.92	4.66	0.25	4.46	0.53	1.61	29.70
1954	2.82	2.18	2.29	3.25	2.94	3.01	4.47	1.03	3.15	7.42	2.51	0.30	37.17
1955	0.63	2.43	1.07	2.35	2.92	1.89	5.82	3.79	1.25	0.39	2.11	2.65	27.30
1956	1.61	1.84	1.41	1.46	4.08	6.46	5.09	1.53	0.98	3.26	3.00	4.09	41.61
1957	1.53	0.64	1.37	2.36	4.29	7.50	7.17	3.27	2.84	0.42	4.85	0.99	36.63
1958	2.70	2.79	3.53	3.04	6.56	1.09	1.54	2.44	3.36	4.53	2.61	2.33	36.60
1959	1.94	2.82	1.97	3.28	4.14	6.21	2.77	1.32	2.82	2.30	2.05	1.62	32.86
1960	0.51	2.17	4.59	5.71	5.46	6.47	2.80	1.27	3.92	3.47	3.37	2.36	42.10
1961	4.21	2.74	2.74	2.47	5.27	2.23	9.57	2.01	1.59	2.41	1.93	0.41	37.98
1962	0.95	0.96	6.84	2.22	0.90	2.26	4.32	3.55	0.30	1.69	2.02	0.09	26.89
1963	1.87	1.74	3.97	9.55	0.58	3.20	2.41	2.50	2.10	0.16	3.42	1.79	35.46
1964	4.13	1.66	2.50	5.64	3.66	3.05	5.12	6.89	5.91	1.94	1.24	2.68	44.44
1965	0.40	2.07	1.91	4.46	2.99	3.02	1.34	2.97	6.29	1.03	3.52	5.66	35.84
1966	3.05	1.39	2.51	2.39	4.66	1.55	2.66	1.46	1.54	4.47	2.49	6.63	34.80
1967	2.31	1.30	1.69	3.31	6.92	6.97	2.03	4.00	1.70	0.64	4.60	2.30	39.69
1968	3.61	1.02	2.23	4.00	1.71	1.82	2.98	3.30	5.74	5.39	1.60	1.38	37.06
1969	0.52	0.86	2.33	7.71	1.72	3.26	4.58	3.12	6.99	3.07	1.34	1.01	36.51
1970	1.03	3.27	1.46	0.70	3.84	1.22	10.06	1.43	4.47	0.72	1.59	6.16	37.15
1971	0.98	0.83	3.28	4.51	2.00	3.46	2.58	5.71	8.69	2.13	4.17	4.93	43.25
1972	1.11	0.67	6.55	5.20	3.23	7.11	9.21	3.04	3.06	2.91	2.47	4.81	49.37
1973	3.08	3.31	3.85	4.74	6.31	5.71	1.47	5.94	1.52	1.30	3.78	2.54	43.55
1974	4.64	2.85	2.59	3.08	3.85	6.11	4.90	6.43	2.97	2.20	3.32	2.65	45.79
1975	1.31	2.90	3.82	0.59	4.36	6.53	6.17	2.23	3.80	2.90	0.57	0.27	32.77
1976	1.31	1.36	5.83	0.78	3.58	2.30	3.03	10.01	4.83	4.75	2.52	2.63	42.93
1977	1.34	1.18	3.70	2.62	4.38	1.94	5.53	5.77	1.83	1.75	2.62	3.39	36.07
1978	2.86	1.27	4.87	6.47	1.47	1.01	8.75	4.80	0.53	2.00	2.71	1.45	38.19
1979	0.78	1.70	4.29	2.39	3.76	4.62	1.36	4.26	3.34	2.24	1.63	1.36	31.73
1980	0.64	2.21	0.79	6.03	5.83	4.72	6.83	6.72	3.82</				



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
7am Relative Humidity (percent) <sup>1</sup>	84 (3.8)	84 (3.7)	83 (3.0)	79 (4.1)	79 (4.5)	80 (3.7)	83 (4.0)	87 (4.9)	87 (6.1)	83 (5.7)	85 (3.0)	86 (3.7)	83
7pm Relative Humidity (percent) <sup>1</sup>	78 (6.1)	75 (4.6)	70 (5.7)	62 (7.2)	59 (8.0)	59 (7.3)	63 (7.0)	69 (8.4)	62 (6.1)	63 (8.1)	73 (5.2)	80 (6.0)	68
Evaporation <sup>2</sup> (inches/month)				4.25 (0.69)	6.00 (1.13)	7.02 (1.42)	7.27 (1.27)	6.21 (1.07)	4.78 (0.74)	3.50 (1.26)			
Mean Solar Radiation <sup>3</sup> (mega joules meter <sup>-2</sup> day <sup>-1</sup> )	6.8	9.6	11.4	15.7	19.4	21.9	21.7	19.6	15.9	10.7	6.5	5.2	13.7
Maximum Solar Radiation <sup>3</sup> (mega joules meter <sup>-2</sup> day <sup>-1</sup> )	12.9	19.0	23.7	27.8	31.0	32.1	31.3	28.8	24.5	20.0	13.9	11.7	32.1
Clear Days	8	7	7	7	9	9	10	10	11	12	8	7	105
Partly Cloudy Days	8	9	9	10	12	13	14	14	10	9	8	8	124
Cloudy Days	15	12	15	13	10	8	7	7	9	10	14	16	136
Mean Maximum 4 Inch Soil Temperature <sup>4</sup> (°F) <sup>1</sup>	33 (2.7)	34 (2.8)	42 (3.9)	55 (2.4)	66 (3.1)	76 (2.3)	81 (2.3)	78 (2.0)	72 (2.1)	60 (2.9)	48 (2.7)	38 (3.0)	57
Mean Minimum 4 Inch Soil Temperature (°F) <sup>1</sup>	31 (2.3)	32 (1.9)	38 (3.2)	49 (2.3)	60 (3.0)	69 (2.1)	74 (1.7)	73 (1.4)	67 (1.9)	54 (2.8)	45 (2.4)	35 (2.3)	52
Mean Maximum 8 Inch Soil Temperature (°F) <sup>1</sup>	34 (2.5)	34 (2.7)	41 (3.8)	53 (2.5)	64 (2.6)	73 (1.8)	78 (1.4)	76 (2.1)	71 (2.1)	61 (2.6)	50 (2.5)	40 (2.9)	56
Mean Minimum 8 Inch Soil Temperature (°F) <sup>1</sup>	34 (2.4)	34 (2.4)	40 (3.5)	51 (2.2)	61 (2.7)	70 (1.6)	75 (1.5)	74 (2.1)	70 (1.9)	59 (2.6)	48 (2.3)	39 (2.6)	51

<sup>1</sup> Numbers in parenthesis are standard deviations

<sup>2</sup> Means based upon pan evaporation

<sup>3</sup> Period of Record 1981-1984, Bondville

<sup>4</sup> Period of record 1960-1986

#### ACKNOWLEDGEMENTS

The authors thank Ms. Debra Mitchell for typing of tables, and Mr. John Brother for preparation of table headings.

A more complete history of the Morrow Plots weather station was prepared by Stanley A. Changnon, Jr. and was published by the Water Survey as Circular 88. This summary was prepared by Audrey Bryan, Observer, and Wayne M. Wendland, Illinois State Climatologist at the Water Survey. Copies are available at no cost from the Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820.